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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/567,126	08/15/2006	Vera Cherepinsky	035950/US/2-475396-00167	2332	
30873 DORSEY & W	7590 06/23/201 HITNEY LLP	EXAMINER			
	AL PROPERTY DEPA	LIN, JERRY			
250 PARK AVI NEW YORK, N	-		ART UNIT	PAPER NUMBER	
			1631		
		MAIL DATE	DELIVERY MODE		
			06/23/2010	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Ap	plication No.		Applicant(s)				
Office Action Summary		10	0/567,126		CHEREPINSKY ET AL.				
		Ex	aminer		Art Unit				
		JE	RRY LIN		1631				
The MAR Period for Reply	LING DATE of this commun	nication appears	s on the cover she	eet with the co	orrespondence ad	ldress			
A SHORTENEI WHICHEVER I - Extensions of time	O STATUTORY PERIOD F S LONGER, FROM THE N may be available under the provision: THS from the mailing date of this comi	MAILING DATE s of 37 CFR 1.136(a).	OF THIS COMM	MUNICATION	l.	0) DAYS,			
 If NO period for rep Failure to reply with Any reply received 	ly is specified above, the maximum s nin the set or extended period for repl by the Office later than three months adjustment. See 37 CFR 1.704(b).	tatutory period will ap y will, by statute, caus	se the application to bec	ome ABANDONED) (35 U.S.C. § 133).	ommunication.			
Status									
1)⊠ Respons	ve to communication(s) file	ed on <u>12 A<i>pril</i> 2</u>	<u>2010</u> .						
2a) ☐ This action	on is FINAL .	2b)⊠ This acti	ion is non-final.						
3)☐ Since this	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
closed in	accordance with the pract	ice under <i>Ex pa</i>	arte Quayle, 193	5 C.D. 11, 45	3 O.G. 213.				
Disposition of Cla	ims								
4)⊠ Claim(s)	4)⊠ Claim(s) <u>1-21,41,61 and 81</u> is/are pending in the application.								
4a) Of the	4a) Of the above claim(s) <u>2</u> is/are withdrawn from consideration.								
5)∏ Claim(s)	5) Claim(s) is/are allowed.								
6)⊠ Claim(s)	<u>1,3-21,41,61 and 81</u> is/are	rejected.							
7)∏ Claim(s)	is/are objected to.								
8)☐ Claim(s)	are subject to restri	ction and/or ele	ection requiremer	nt.					
Application Paper	s								
9)∐ The speci	fication is objected to by th	ne Examiner.							
•	ng(s) filed on is/are		ed or b)⊡ objecte	ed to by the E	xaminer.				
Applicant	may not request that any obje	ection to the draw	ving(s) be held in a	beyance. See	37 CFR 1.85(a).				
Replacem	ent drawing sheet(s) including	g the correction is	s required if the dra	awing(s) is obj	ected to. See 37 CI	FR 1.121(d).			
11)∐ The oath	or declaration is objected t	o by the Exami	ner. Note the atta	ached Office	Action or form P1	ГО-152.			
Priority under 35	J.S.C. § 119								
	dgment is made of a claim	for foreign pric	ority under 35 U.S	S.C. § 119(a)	-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:									
1. Certified copies of the priority documents have been received.									
 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 									
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).									
* See the attached detailed Office action for a list of the certified copies not received.									
-			·						
Attachment(s)									
1) Notice of Referen		DTO 040'		rview Summary (
3) 🔯 Information Discl	erson's Patent Drawing Review (l osure Statement(s) (PTO/SB/08) Date <u>2/1/06, 8/28/06</u> .		5) 🔲 Noti	er No(s)/Mail Da ice of Informal Pa er:					

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DETAILED ACTION

Election/Restrictions

1. Applicant's election of Species B, claims 3-20 and 81 in the reply filed on April 12, 2010 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claim 2 is withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim.

Information Disclosure Statement

2. The last item listed on the IDS filed 2/1/2006 has been lined through because there is no publication date.

Claim Rejections - 35 USC § 112, 2nd Paragraph

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 1-21, 41, 61, and 81 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Instant claim 1, 21, 41, and 61 recite "at least one of a genotype and a haplotype or a strain variant" in lines 9, 9, 10, 11, respectively. It is unclear if this phrase is intended to recite "genotype" and "haplotype" as alternatives or as a combination a that

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requires both. Please clarify via clearer claim language. Claims 2-21 and 81 are also rejected for depending from claim 1.

Claim Rejections - 35 USC § 101

5. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 21, 41, 61 rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Instant claim 21 is drawn to a computer program. Instant claim 61 is drawn to a processing arrangement which may be interpreted as a computer program. A computer program is non-statutory *per se* when claimed by itself. Thus the instant claims are non-statutory.

Instant claim 41 is drawn to a storage medium. A carrier wave may transiently store data. Thus, the instant claim encompasses carrier waves. However, carrier waves are non-statutory *per se*. Thus, the instant claim is non-statutory.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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7. Claims 1, 3, 21, 41, and 61 are rejected under 35 U.S.C. 102(b) as being anticipated by Cutler et al. (Genome Research (2001) Volume 11, pages 1913-1925).

Cutler et al. teach a method that include providing one or more microarrays with an optimal set of oligonucleotides capable of detecting a genotype (page 1914, under "Results"; paragraph bridging pages 1923-1924); hybridizing a DNA sample to the microarray (page 1924, under "Hybridization of Amplified Target DNA to VDAs); determining a genotype based on the hybridization pattern (page 1915, under "ABACUS: An Automated Statistical System for Calling VDA Genotypes").

Furthermore, their ABACUS system is implemented on a computer which would require a software arrangement, storage medium, and processing arrangement.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JERRY LIN whose telephone number is (571)272-2561. The examiner can normally be reached on 7:30-6:00pm, M-TH.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marjorie A. Moran can be reached on (571) 272-0720. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jerry Lin/ Primary Examiner, Art Unit 1631 6/19/2010